

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (currently amended) An Internet telephone system for voice communication between a telephone subscribing to a first voice network and a telephone subscribing to a second voice network via a network using an Internet protocol, comprising:

a plurality of label switch routers configured to use a label switching technique;

a first media gateway coupled to a first one of the plurality of label switch routers and a first signaling transfer point connected to said first voice network;

a second media gateway coupled to a second one of the plurality of label switch routers and a second signaling transfer point connected to said second voice network;

a path control unit configured to:

determine whether a first path having a first bandwidth larger than a bandwidth necessary for transferring a voice over Internet protocol (VoIP) packet between said first label switch router and said second label switch router exists, and

when it is determined that the first path having the first bandwidth does not exist, set a new path having a bandwidth that is equal to or more than double the bandwidth necessary for transferring the VoIP packet; and

a packet control unit, coupled to said path control unit, configured to:

instruct said first media gateway and said second media gateway to transfer VoIP packets via the first path or the new path.

2. (previously presented) The Internet telephone system of claim 1, wherein the new path has a bandwidth that is equal to or more than a hundred times the first bandwidth.
3. (previously presented) The Internet telephone system of claim 1, further comprising:
a route control unit configured to control said plurality of label switch routers.
4. (previously presented) The Internet telephone system of claim 3, wherein said route control unit is provided to each label switch router.
5. (previously presented) The Internet telephone system of claim 3, wherein said route control unit is connected to all of the plurality of label switch routers.
6. (previously presented) A path setting method of setting a path to which a bandwidth is ensured on a network using an Internet protocol connected between a first voice network and a second voice network to execute voice communication between a telephone associated with the first voice network and a telephone associated with the second voice network, comprising:
determining whether a first path having a residual bandwidth larger than a first bandwidth necessary for transferring a voice over Internet protocol (VoIP) packet between two edge label switch routers exists; and
setting a new path having a bandwidth that is equal to or more than double the first bandwidth, when it is determined that the first path does not exist.

7. (previously presented) The path setting method of claim 6, wherein said new path has a bandwidth that is equal to or more than a hundred times the first bandwidth.

8. (currently amended) A call control apparatus for setting a path to which a bandwidth is ensured on a network using an Internet protocol connected to a first voice network and a second voice network to execute voice communication between a telephone coupled to said first voice network and a telephone coupled to said second voice network, comprising:

a path control unit configured to:

determine whether a first path having a residual bandwidth larger than a first bandwidth necessary for transferring a voice over Internet protocol (VoIP) packet between a first label switch router and a second label switch router[[,]] exists, and

when it is determined that the first path does not exist, set a second path having a bandwidth that is equal to or more two times the first bandwidth; and

a packet control unit configured to control a first media gateway and a second media gateway connected to said first and second label switch routers, respectively, to transfer said VoIP packet via the first path or said second path.

9. (previously presented) The call control apparatus of claim 8, wherein the second path set by said path control unit has a bandwidth of a hundred times of said first bandwidth.

10. (previously presented) A router connected between a first voice network and a second voice network to implement voice communication between a telephone associated with a first voice network and a telephone associated with a second voice network, comprising:

logic configured to set a path having a first bandwidth that is at least two times a bandwidth necessary for transferring a voice over Internet protocol (VoIP) packet in accordance with control by a call control apparatus, thereby establishing a plurality of connections in said path.

11. (previously presented) The router of claim 10, wherein said path has a bandwidth of at least one hundred times the first bandwidth.

12. (previously presented) The router of claim 10, wherein said router is a label switch router.

13. (previously presented) A computer program product for implementing a call control apparatus for setting a path between a first voice network and a second voice network, said computer program product comprising:

instructions for determining whether a first path having a bandwidth larger than a bandwidth necessary for transferring a voice over Internet protocol. (VoIP) packet between two label switch routers exists;

instructions for setting, when it is determined that the first path does not exist, a new path having a bandwidth that is equal to or more than two times the first bandwidth; and

instructions for controlling a media gateway connected to at least a first one of said two label switch routers to transfer said VoIP packet via the first path or said new path.

14. (previously presented) The computer program product of claim 13, wherein the new path has a bandwidth that is one hundred times the first bandwidth.

15. (previously presented) A device, comprising:

a controller configured to:

receive a call request associated with establishing a voice connection between a first device and a second device via a network, the voice connection using voice over Internet protocol (VoIP),

determine whether a first label switching path exists in the network between a first router and second router, the first router and second routers being involved in routing VoIP packets between the first device and second device, and

request, when the first label switching path does not exist, that the first router establish a second label switching path to the second router, the second label switching path having a bandwidth of at least two times a bandwidth needed for transferring a VoIP packet between the first and second devices.

16. (previously presented) The device of claim 15, wherein the controller is further configured to:

manage the use of labels associated with label switching in the network such that transfer of a VoIP packet from the first device to the second device through at least one other device uses a single label.

17. (previously presented) The device of claim 16, wherein each of the first and second devices comprises an edge router and the other device comprises a core router.